Total Kjeldahl Nitrogen by SEAL AQ2 Discrete Analyzer
SEAL Method EPA-125-A Rev. 3 **Page 1 of 2**

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
1. Is the linear calibration range determined initially, and does it contain a minimum of a blank and three standards?	*Method Supplement 1, Rev. 2 (MS)* 3.2.1				
2. Is linearity reestablished if any verification data exceeds initial calibration values by ±10%?	*MS* 3.2.1				
3. Is a laboratory control sample analyzed with every batch, and is recovery assessed against current laboratory criteria? *NOTE: The laboratory "should" establish upper and lower control limits from control charts based on % recovery.*	*MS* 3.4.3, 3.4.3.4, 3.4.3.5				
4. Is at least one method blank carried through all the procedural steps with each batch?	*MS* 3.4.1.1				
5. Is the calibration verified using a calibration standard after every ten samples or every analytical batch?	*MS* 4.5				
6. Is a minimum of 10% of all samples spiked with the stock standard?	*MS* 3.3.1				
7. For compliance monitoring, is the concentration of the matrix spike at the regulatory limit OR 1 to 5 times higher than the background concentration of the sample?	MS 3.3.1.1.1				
8. Are samples preserved with sulfuric acid to pH<2 and cooled at ≤ 6°C at the time of collection?	40CFR136.3 Table 1I				
9. Are samples analyzed analyzed within 28 days?	40CFR136.3 Table 1I				
Notes/Comments:					

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Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
10. Are calibration standards either digested or prepared from a digested blank?	7.2				
11. If using calibration standards prepared from a digested blank, are at least two check standards digested?	10.4				
12. Is digestion reagent added to samples in a ratio of 5 mL digestion reagent to 20 or 25 mL of sample?	7.2, 11.1				
13. Are several boiling stones added to each digestion tube?	11.2				
14. Is the digestion block preheated to 160ºC?	11.3				
15. Are samples digested at 160ºC for one hour and then 380ºC for the completion of the digestion?	11.3				
16. Are digested samples cooled briefly, diluted with the appropriate amount of water, and mixed with a vortex mixer?	11.4				
17. Is ammonia-free ASTM Type II water or better used for all solutions?	7.1				
18. Are test parameters set as specified in the method? These include 100 µL sample volume, 35 µL water volume, 600 second reaction time, 660 nm wavelength, 190 µL buffer, 26 µL alkaline EDTA, 130 µL salicylate, and 32 µL hypochlorite.	17.1				
19. Are samples which exceed the highest calibration standard diluted with the digested blank and reanalyzed or flagged as exceeding the calibration range?	12.2				

Notes/Comments: